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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/820,916	04/09/2004	Brittany L. Hayes	1700.118A	8768	
21176	7590 12/08/2004		EXAM	EXAMINER	
SUMMA & A	•	POAD.	HOANG, TU BA		
11610 NORTH COMMUNITY HOUSE ROAD SUITE 200			ART UNIT	PAPER NUMBER	
CHARLOTTE	, NC 28277		3742		

DATE MAILED: 12/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		1
	10/820,916	HAYES ET AL.	\	
Office Action Summary	Examiner	Art Unit		<u> </u>
	Tu Ba Hoang	3742		
The MAILING DATE of this communication appearing for Reply	pears on the cover sheet with the c	orrespondence ad	dress -	•
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	/. emmunica	ation.
Status				
1) Responsive to communication(s) filed on				
2a)☐ This action is FINAL . 2b)☒ This	s action is non-final.			
3) Since this application is in condition for allowated closed in accordance with the practice under leading to the condition of the condit			merits	s is
Disposition of Claims				
 4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) 6-20 is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine				
10) ☐ The drawing(s) filed on <u>09 April 2004</u> is/are: a				
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct			R 1.12	1(d).
11) The oath or declaration is objected to by the Ex				
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National	Stage	
Attachment(s)	, –			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)			
2) Notice of Dransperson's Patent Drawing Review (F10-946) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/22/04.)-152)	

Art Unit: 3742

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitations "the step of providing the flow of conduction fluid" in lies 1-2 and "the instrument" in line 2. There are insufficient antecedent bases for these limitations in the claim or from the preceding claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Schlie (US 5,235,251). Schlie shows a vessel 43 containing reactants in the region 49 (column 5, lines 4-7, i.e., nitrogen, inert gas, molecular gas, vaporous metal or halide salts) at which energy source 41 other than conduction heating of the vessel or the reactants (i.e., microwave source) is applied to the reactants in the vessel 43 while a hydraulic cooling fluid is for concurrently cooling the vessel 43 by conduction by contacting the exterior of the vessel with the fluid (i.e., at the region 53 in the cooling jacket 51), wherein a flow of gas (or air) is directed to the vessel by source 45 and vacuum 47. It is inherently that vaccum 47 must include a fan or motor in order to provide the flow of gas (i.e., by compression).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Jennings et al (US 5,796,080), Barclay et al (US 5,972,711), Jennings (US 6,753,517), Hayes et al (US 6,744,024 and US 5,721,123), and Collins et al (US 2004/0020923).

Claims 6-20 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not show the vessel is concurrently cooled by the flow of the conduction fluid against the vessel and the temperature of the vessel or its contents is concurrently monitored in the manner recited in claims 6 and 13.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Ba Hoang whose telephone number is (571) 272-4780. The examiner can normally be reached on Mon-fri from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (571) 272-4777.

Application/Control Number: 10/820,916

Art Unit: 3742

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu Ba Hoang Primary Examiner Art Unit 3742 Page 3

November 29, 2004